BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work:-Improvements of roads, drains and construction of culverts at Central Excise layout, Hegdenagara and surrouning areas in ward no. 06.

SL No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation** by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 143/ Item No. 19.1/ PWD SR 2018-19								
		Cum							
	New Drain								
	Central revenue layout								
	2nd main		2	155.00	1.10	1.00	341.00		
	3rd main		2	157.00	1.10	1.00	345.40		
	4th main		2	128.00	1.10	1.00	281.60		
	Cross road		2	46.00	1.10	1.00	101.20		
	Cross road		2	27.00	1.10	1.00	59.40		
	New Culvert								
	culvert 1		3	8.40	1.40	1.20	42.34		
	culvert 2		2	6.70	1.40	1.20	22.51		
							1193.45	**238.92**	**285,143.00**
	Basic Rate	130.00							
	Loading & Unloading	57.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 15km	38.40							
	Area Weightage @ 6 %	13.52							
	Total Rate	238.92							
2	KSRRB M2900-1. **Plain cement concrete 1:3:6** mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
		Cum							
	New Drain								
	Central revenue layout								
	2nd main		2	155.00	1.10	0.125	42.63		
	3rd main		2	157.00	1.10	0.125	43.18		
	4th main		2	128.00	1.10	0.125	35.20		
	Cross road		2	46.00	1.10	0.125	12.65		
	Cross road		2	27.00	1.10	0.125	7.43		
	New Culvert								
	culvert 1		3	8.40	1.40	0.125	4.41		
	culvert 2		2	6.70	1.40	0.125	2.35		
							147.83	**4479.56**	**662,213.00**
	Basic Rate	4226.00							
	Area Weightage @ 6 %	253.56							
	Total Rate	4479.56							

Sl. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
3	Providing and laying plain/reinforced cement concrete for side drains using **M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.**Wall & bottom thickness 15cm** KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2								
		Cum							
	For Raft								
	New Drain								
	Central revenue layout								
	2nd main		2	155.00	0.90	0.15	41.85		
	3rd main		2	157.00	0.90	0.15	42.39		
	4th main		2	128.00	0.90	0.15	34.56		
	Cross road		2	46.00	0.90	0.15	12.42		
	Cross road		2	27.00	0.90	0.15	7.29		
	For Side wall								
	New Drain								
	Central revenue layout								
	2nd main		4	155.00	0.15	0.60	55.80		
	3rd main		4	157.00	0.15	0.60	56.52		
	4th main		4	128.00	0.15	0.60	46.08		
	Cross road		4	46.00	0.15	0.60	16.56		
	Cross road		4	27.00	0.15	0.60	9.72		
	New Culvert								
	culvert 1		3	8.40	1.20	0.15	4.54		
	culvert 2		2	6.70	1.20	0.15	2.41		
	New Culvert								
	culvert 1		6	8.40	0.25	0.60	7.56		
	culvert 2		4	6.70	0.25	0.60	4.02		
							341.72	**7070.20**	**2,416,015.00**
	Basic Rate	6670.00							
	Area Weightage @ 6 %	400.20							
	Total Rate	7070.20							
4	KSRRB M2200-6. Providing **T.M.T**. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 **TMT Bars Fe 550**(P-229/28.8.3) PWD SR 2018-19								
		Tn							
	For RCC Drain								
	Total RCC Quantity	Cum					**323.19**		
	For 1 Cum = 60	Kg					60.00		
		Kg					19391.40		
							19.39	**72940.72**	**1,414,423.00**
	For RCC Culvert								
	Total RCC Quantity	Cum					**18.53**		
	For 1 Cum = 80	Kg					80.00		
		Kg					1482.24		
							1.48	**72940.72**	**108,116.00**

Sl. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	Basic Rate	68812.00							
	Area Weightage @ 6 %	4128.72							
	Total Rate	72940.72							
5	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1)Data rate								
		Sqm							
	New Drain								
	Central revenue layout								
	2nd main		2	155.00	0.90		279.00		
	3rd main		2	157.00	0.90		282.60		
	4th main		2	128.00	0.90		230.40		
	Cross road		2	46.00	0.90		82.80		
	Cross road		2	27.00	0.90		48.60		
							923.40	**2337.00**	**2,157,986.00**
	Data Rate	2337.00							
6	Providing & laying **precast drain cover slab of 250 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25)Data rate								
		Sqm							
	New Culvert								
	culvert 1		3	8.40	1.20		30.24		
	culvert 2		2	6.70	1.20		16.08		
							46.32	**5418.00**	**250,962.00**
	Data Rate	5418.00							
7	Providing and fixing pre cast solid concrete **kerb stones** of size 450x150x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.1/ PWD SR 2018-19								
		No's							
	New Kerbs								
	Central revenue layout								
	2nd main		2	155.00			310.00		
	3rd main		2	157.00			314.00		
	4th main		2	128.00			256.00		
	Cross road		2	46.00			92.00		
	Cross road		2	27.00			54.00		
				Total Length			**1026.00**		
				No of kerbs= Total Length/0.45			**2280.00**	**477.00**	**1,087,560.00**
	Basic Rate	450.00							
	Area Weightage @ 6 %	27.00							
	Total Rate	477.00							
8	KSRRB 800-1. Painting **two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19								

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
		Sqm							
	Total Length		1	1026.00		0.30	307.80		
							307.80	**84.80**	**26,101.44**
	Basic Rate	80.00							
	Area Weightage @ 6 %	4.80							
	Total Rate	84.80							
	ASPHALT ROAD								
9	KSRRB M300-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19								
		Cum							
	Central revenue layout								
	2nd main road		1	155.00	6.70	0.30	311.55		
	3rd main road		1	157.00	9.60	0.30	452.16		
	4th main road		1	128.00	6.35	0.30	243.84		
	5th main road		1	200.00	5.80	0.30	348.00		
	6th main road		1	151.00	6.40	0.30	289.92		
	Cross road 1		1	47.00	7.40	0.30	104.34		
	Cross road 2		1	30.00	7.40	0.30	66.60		
	Cross road 3		1	36.00	6.80	0.30	73.44		
	For trench cutting								
	2nd main road		2	155.00	0.90	0.30	83.70		
	3rd main road		2	157.00	0.90	0.30	84.78		
	4th main road		2	128.00	0.90	0.30	69.12		
	5th main road		2	200.00	0.90	0.30	108.00		
	6th main road		2	151.00	0.90	0.30	81.54		
	Cross road 1		2	47.00	0.90	0.30	25.38		
	Cross road 2		2	30.00	0.90	0.30	16.20		
	Cross road 3		2	36.00	0.90	0.30	19.44		
							2378.01	**84.16**	**200,142.83**
	Basic Rate	41.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 15km	38.40							
	Area Weightage @ 6 %	4.76							
	Total Rate	84.16							
10	Construction of granular **sub-base Grading**-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision.GSB Page No. 153/ Item No. 20.5/ PWD SR 2018-19								
		Cum							
	Central revenue layout								
	2nd main road		1	155.00	6.70	0.15	155.78		
	3rd main road		1	157.00	9.60	0.15	226.08		
	4th main road		1	128.00	6.35	0.15	121.92		
	5th main road		1	200.00	5.80	0.15	174.00		
	6th main road		1	151.00	6.40	0.15	144.96		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	Cross road 1		1	47.00	7.40	0.15	52.17		
	Cross road 2		1	30.00	7.40	0.15	33.30		
	Cross road 3		1	36.00	6.80	0.15	36.72		
	For trench cutting								
	2nd main road		2	155.00	0.90	0.15	41.85		
	3rd main road		2	157.00	0.90	0.15	42.39		
	4th main road		2	128.00	0.90	0.15	34.56		
	5th main road		2	200.00	0.90	0.15	54.00		
	6th main road		2	151.00	0.90	0.15	40.77		
	Cross road 1		2	47.00	0.90	0.15	12.69		
	Cross road 2		2	30.00	0.90	0.15	8.10		
	Cross road 3		2	36.00	0.90	0.15	9.72		
							1189.01	**1994.92**	**2,371,969.85**
	Basic Rate	1882.00							
	Area Weightage @ 6 %	112.92							
	Total Rate	1994.92							
11	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19								
		Cum							
	Central revenue layout								
	2nd main road		1	155.00	6.70	0.23	238.86		
	3rd main road		1	157.00	9.60	0.23	346.66		
	4th main road		1	128.00	6.35	0.23	186.94		
	5th main road		1	200.00	5.80	0.23	266.80		
	6th main road		1	151.00	6.40	0.23	222.27		
	Cross road 1		1	47.00	7.40	0.23	79.99		
	Cross road 2		1	30.00	7.40	0.23	51.06		
	Cross road 3		1	36.00	6.80	0.23	56.30		
	For trench cutting								
	2nd main road		2	155.00	0.90	0.23	64.17		
	3rd main road		2	157.00	0.90	0.23	65.00		
	4th main road		2	128.00	0.90	0.23	52.99		
	5th main road		2	200.00	0.90	0.23	82.80		
	6th main road		2	151.00	0.90	0.23	62.51		
	Cross road 1		2	47.00	0.90	0.23	19.46		
	Cross road 2		2	29.00	0.90	0.23	12.01		
	Cross road 3		2	36.00	0.90	0.23	14.90		
							1822.73	**2001.28**	**3,647,787.09**
	Basic Rate	1888.00							
	Area Weightage @ 6 %	113.28							
	Total Rate	2001.28							

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
12	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 158/ Item No. 21.6/ PWD SR 2018-19 Issue Rates								
		Sqm							
	Central revenue layout								
	2nd main road		1	155.00	6.70		1038.50		
	3rd main road		1	157.00	9.60		1507.20		
	4th main road		1	128.00	6.35		812.80		
	5th main road		1	200.00	5.80		1160.00		
	6th main road		1	151.00	6.40		966.40		
	Cross road 1		1	47.00	7.40		347.80		
	Cross road 2		1	30.00	7.40		222.00		
	Cross road 3		1	36.00	6.80		244.80		
							6299.50	**29.68**	**186,969.16**
	Basic Rate	28.00							
	Area Weightage @ 6 %	1.68							
	Total Rate	29.68							
13	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (Pg:162, It.No-21.22.6 PWD SR:2018-19)Issue Rates								
		Cum							
	Central revenue layout								
	2nd main road		1	155.00	6.70	0.04	41.54		
	3rd main road		1	157.00	9.60	0.04	60.29		
	4th main road		1	128.00	6.35	0.04	32.51		
	5th main road		1	200.00	5.80	0.04	46.40		
	6th main road		1	151.00	6.40	0.04	38.66		
	Cross road 1		1	47.00	7.40	0.04	13.91		
	Cross road 2		1	30.00	7.40	0.04	8.88		
	Cross road 3		1	36.00	6.80	0.04	9.79		
							251.98	**7355.34**	**1,853,398.57**
	Basic Rate	6939.00							
	Area Weightage @ 6 %	416.34							
	Total Rate	7355.34							
14	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 182/ Item No. 24.15 PWD SR 2018-19								
		Sqm							
	Central revenue layout								

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	2nd main road		2	155.00	0.10		31.00		
	3rd main road		2	157.00	0.10		31.40		
	4th main road		2	128.00	0.10		25.60		
	5th main road		2	200.00	0.10		40.00		
	6th main road		2	151.00	0.10		30.20		
	Cross road 1		2	47.00	0.10		9.40		
	Cross road 2		2	30.00	0.10		6.00		
	Cross road 3		2	36.00	0.10		7.20		
							180.80	**454.74**	**82,216.99**
	Basic Rate	429.00							
	Area Weightage @ 6 %	25.74							
	Total Rate	454.74							
								Sub Total-A	**16,751,003.94**
								Tender Premium 5%	**837,550.20**
								GST 12%	**2,010,120.47**
								DPR 1%	**200,000.00**
								PMC 1%	**200,000.00**
								Miscellaneous	**1,325.39**
								Total	**20,000,000.00**

VSR CIVIL INFRA PVT LTD BANGALORE

Consultant

Assistant Engineer
Ward No. 06

Asst Executive Engineer
Project Yelahanka

Executive Engineer
Project Yelahanka

Administrative Approval
Accorded For Rs. 200.00 lakhs
Head of A/C... P0190
CER NO :... 77 ... Dt:.. 28/02/2021
E.E. (Project)

Technical Sanction
Accorded For Rs 200.00 lakhs only
Head of A/C... P0190
CER NO :... 65 ... Dt:.. 10.03.2020
TA
CE (YNK)